

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 December 2005 (01.12.2005)

PCT

(10) International Publication Number
WO 2005/114085 A1

(51) International Patent Classification⁷: F28F 9/02,
F25B 39/00

Shigeharu [JP/JP]; c/o SHOWA DENKO K.K., OYAMA
REGIONAL OFFICE, 480, Inuzuka 1-chome, Oyama-shi,
Tochigi, 3238678 (JP).

(21) International Application Number:
PCT/JP2005/009601

(74) Agents: **HIBI, Norihiko** et al.; c/o KISHIMOTO &
CO., 3rd Floor, Inaba Building, 13-18, Nishishinsaibashi
1-chome, Chuo-ku, Osaka-shi, Osaka 5420086 (JP).

(22) International Filing Date: 19 May 2005 (19.05.2005)

(25) Filing Language: English

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG,
KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM,
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,
YU, ZA, ZM, ZW.

(26) Publication Language: English

(30) Priority Data:
2004-149909 20 May 2004 (20.05.2004) JP
60/574,579 27 May 2004 (27.05.2004) US

(71) Applicant (*for all designated States except US*): **SHOWA
DENKO K.K.** [JP/JP]; 13-9, Shiba Daimon 1-chome, Mi-
nato-ku, Tokyo, 1058518 (JP).

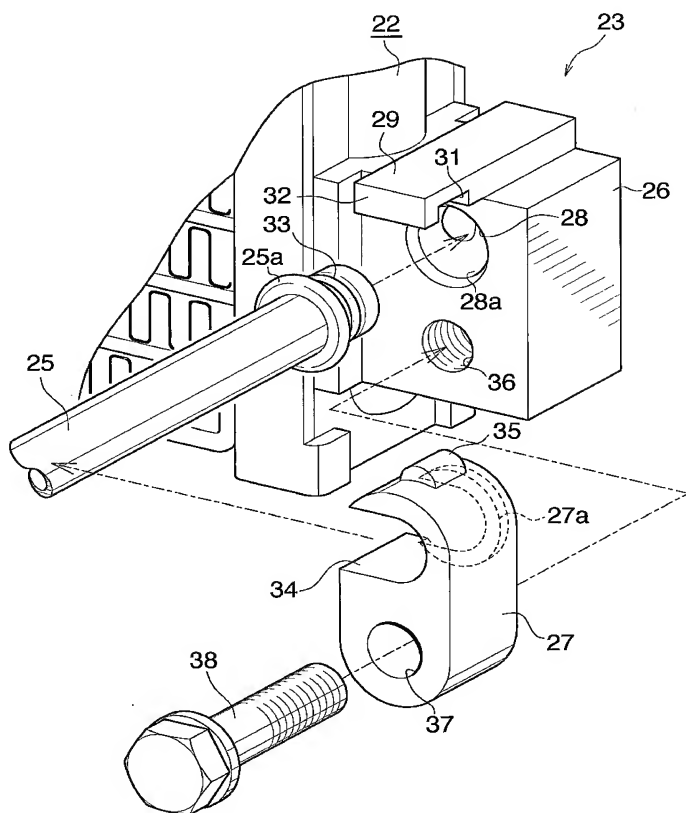
(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **ICHIYANAGI,**

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: REFRIGERANT FLOW SECTION CONNECTION STRUCTURE FOR USE IN REFRIGERATION CYCLE



(57) Abstract: A refrigerant flow section connection structure has a channel member 26 having a refrigerant channel 28, a pipe 25 having a distal end portion fitted into the other end opening of the refrigerant channel 28 of the channel member 26, a fixing member 27 for fixing the pipe 25 to the channel member 26, and screw tightening means for joining the channel member 26 and the fixing member 27 together at their end portions. The channel member 26 has an engaging portion 32 to engage with a projection 35 of the fixing member 27. The refrigerant flow section connection structure for use in a refrigeration cycle according to the present invention has an improved withstand pressure.



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.